

## REMARKS

Claims 5 and 23 have been cancelled. Claims 1, 6, 7, 12, 13, 18-22 and 29 have been amended to clarify the subject matter regarded as the invention. Claims 1-4, 6-22, and 24-29 are pending.

The independent claims have been amended in a manner believed to overcome the rejections under 35 USC 112. For example, in claim 1 the addition of the limitations from claim 5 makes clear that adjusting the algorithm to select a beat frequency is accomplished at least in part by “adjusting the selection of the plurality of samples of the signal that are negated”. With respect to the equivalent sampling function, the claims have been amended to recite that the plurality of complex samples correspond to the output of an effective sampling function, as described for example in the specification at page 10, lines 1-8.

The Examiner has indicated that claims 5-7, 12-15, 18-21, 23, and 28 contain allowable subject matter. Claim 1 has been amended to incorporate the limitations of claim 5. It is therefore believed that claim 5 is allowable. Likewise, claims 6, 7, 12, 18, and 19 have been amended to include all of the limitations of the base claim from which they formerly depended. It is therefore believed that claims 6, 7, 12, 18, and 19 are allowable. Claim 22 has been amended to include the limitations of claim 23 and is therefore believed to be allowable.

Claims 2-4, 8-11, and 14-17 depend from claim 1 and are believed to be allowable for the same reasons as claim 1. Claim 13 depends from claim 12 and is believed to be allowable for the same reasons as claim 12. Claims 20 and 21 depend from claim 19 and are believed to be allowable for the same reasons as claim 19. Claims 24-28 depend from claim 22 and are believed to be allowable for the same reasons as claim 22.

Finally, claim 29 has been amended to include the limitations of claim 5. As such, claim 29 is believed to be allowable.

The foregoing amendments are not to be taken as an admission of unpatentability of any of the claims prior to the amendments.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,

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William J. James

William J. James  
Registration No. 40,661  
V 408-973-2592  
F 408-973-2595

VAN PELT, YI & JAMES LLP  
10050 N. Foothill Blvd., Suite 200  
Cupertino, CA 95014